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1. DHP12-007: Novel Sampling Device for the Surveillance of Adult Flying Insect Vectors

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a novel freestanding, lightweight, compact, portable sampling device to collect a broad spectrum of adult flying insect disease vectors. DESCRIPTION: Vector borne disease historically ranks among the leading causes of Disease and Injury (D&I) among U.S. service members deployed in support of military operations. Entomologists perform vector surveillance in order to mitigate t ...

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2. DHP12-008: Multisegmental Sensor Integration for Balance Control

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and optimize integration of networked sensors located on torso and appendages of body to assess accurate center of-gravity and center-of-pressure in real time. DESCRIPTION: The most frequent and challenging symptom experienced by military personnel exposed to IED or concussive events is dizziness or loss of balance (Balaban 2009). Balance is also an issue for warfighters who ...

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3. DHP12-009: Ear Protection Validation System

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a user-friendly, portable, universal hearing protection device (HPD) field attenuation estimation system (FAES) that deployed or garrison personnel can use to measure the effective noise protection provided by a hearing protection device or system that is fit and worn in the field. DESCRIPTION: It is generally understood that hearing protection devices typically fail to provi ...

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4. DHP12-010: Self Powered Biosensors

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Self-powered wearable biosensors will be developed to provide continuous health monitoring, in particular respiratory effort, and ECG monitoring. It will be demonstrated that wearable biosensors can be self-powered by harvesting ambient energy or monitored physiological signals. DESCRIPTION: Self-powered wearable biosensors could provide a powerful tool for continuous medical monit ...

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5. DHP12-011: Antimicrobial Textiles

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The objective of this research is to develop durable, scalable, robust and effective long-term antimicrobial textile finish. DESCRIPTION: There is a continuing need for antimicrobial textiles to provide a range of capabilities to the DOD. These include improved hygiene for soldiers via integration into uniforms to control odor; in medical textiles to control the transmission of p ...

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6. DHP12-012: Biosensor and Controller for Closed Loop Anesthesia Delivery System

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop solution to enable closed loop anesthesia delivery system that can be used in far forward operations with regulatory plan for FDA approval, leading to commercialization of the product for use in the United States. DESCRIPTION: Total intravenous anesthesia (TIVA) technique through a target controlled infusion (TCI) approach is an accepted method of inducing and maintaining sed ...

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7. DHP12-013: Drug Delivery System for Topical Treatment of Peripheral Neuropathy

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop a controlled, target-specific delivery system for topical treatment of peripheral neuropathy. DESCRIPTION: Peripheral neuropathy (PN) is a painful, debilitating, and often chronic condition associated with diabetes, cancer treated with various chemotherapies, and a wide variety of other diseases and conditions, such as infections, environmental/toxic exposures, alcoholism, an ...

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8. DHP12-014: Development of a Biometric Model for Use in Addressing Pelvic Blast Injury

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop and validate a biometric model for use by the medical research community to address dismounted complex blast injury of the pelvis, abdomen, and genitals. DESCRIPTION: In Afghanistan, military medical healthcare providers have expressed an interest in providing protection to soldiers to mitigate dismounted complex blast injury (DCBI). Specifically, they would like to provide ...

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9. DHP12-015: Objective Method for Pain Detection/Diagnosis

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop an objective assay for the rapid and reliable detection/diagnosis of pain and its intensity for use with the traumatically injured including the severely cognitively impaired and sedated patients. The developed assay may include but is not limited to biomarker, imaging, electrophysiological, and other physiological and behavioral monitoring techniques. DESCRIPTION: A high pe ...

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10. DHP12-016: Development of Technologies that Control Scar Contracture after Burn Injuries

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: The objective of this effort is to design a new innovative technology to intervene during the wound healing process (i.e. inflammatory, proliferative and/or remodeling stages) as to attenuate/control scar contracture and retain skin aesthetics following deep tissue burn injuries. DESCRIPTION: Here we recognize 450,000 burn injuries requiring medical occur in the U.S. each year. Ap ...

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